

electromagnetic interrogation field when present in the electromagnetic interrogation field to generate a response to the electromagnetic interrogation field; and

at least one reading device for obtaining information from said at least one sensor about the presence of moisture,

said at least one reading device comprising transmitter-receiver means for generating an electromagnetic interrogation field and for recording the response of said at least one sensor to the electromagnetic interrogation field to obtain information about the presence of moisture at said at least one sensor,

said transmitter-receiver means comprising at least one frequency component corresponding to the resonance frequency of said resonant circuit,

said transmitter-receiver means being structured and arranged relative to said at least one sensor such that the electromagnetic interrogation field generated by said transmitter-receiver means is wirelessly propagated and the response of said at least one sensor is wirelessly received by said transmitter-receiver means.

Please amend claim 2 as follows:

2. (Amended) A system according to claim 1, wherein said moisture sensitive material is included in said resonant circuit such that the Q factor of said resonant circuit decreases when the resistance of said moisture sensitive material increases.

Please amend claim 3 as follows:

3. (Amended) A system according to claim 1, wherein said moisture sensitive material is included in said resonant circuit such that the Q factor of said resonant circuit increases when the resistance of said moisture sensitive material increases.

Please amend claim 4 as follows:

4. (Twice Amended) A system according to claim 1, wherein said resonant circuit comprises an LC circuit.

BEST AVAILABLE COPY

Please amend claim 5 as follows:

5. (Amended) A system according to claim 4, wherein at least a portion of said LC circuit is made from the moisture sensitive material.

Please amend claim 6 as follows:

6. (Twice Amended) A system according to claim 1, wherein the moisture sensitive material comprises a binding agent capable of swelling in moisture and containing electrically conductive particles.

Please amend claim 7 as follows:

7. (Twice Amended) A system according to claim 1, wherein the moisture sensitive material comprises a binding agent including particles capable of swelling in moisture and electrically conductive particles.

Please amend claim 8 as follows:

8. (Twice Amended) A system according to claim 1, wherein the moisture sensitive material is arranged on a carrier material in the form of a coating.

Please amend claim 9 as follows:

9. (Twice Amended) A system according to claim 4, wherein at least part of the LC circuit is formed by a coating.

Please amend claim 10 as follows:

10. (Twice Amended) A system according claim 1, transmitter-receiver means are designed as a transmission system for detecting an electromagnetic response signal generated by said at least one sensor in response to the electromagnetic interrogation field.

Please amend claim 11 as follows:

11. (Amended) A system according to claim 10, wherein said at least one reading device determines on the basis of the intensity of the detected response signal to what extent said at least one sensor is in contact with moisture.

Please amend claim 12 as follows:

12. (Twice Amended) A system according to claim 2, wherein said at least one reading device comprises a threshold circuit arranged to determine whether the detected intensity is below a predetermined value.

Please amend claim 13 as follows:

13. (Twice Amended) A system according to claim 1, wherein said transmitter-receiver means are designed as an absorption system for detecting energy absorbed from the interrogation field by said at least one sensor in response to the electromagnetic interrogation field.

Please amend claim 14 as follows:

14. (Amended) A system according to claim 13, wherein said at least one reading device determines on the basis of the amount of energy absorbed by said at least one sensor the extent to which said at least one sensor is in contact with moisture.

Please amend claim 15 as follows:

15. (Twice Amended) A system according to claim 2, wherein said at least one reading device comprises a threshold circuit arranged to determine whether the amount of energy absorbed is below a predetermined value.

Please amend claim 16 as follows:

16. (Twice Amended) A system according to claim 1, wherein said at least one reading device generates an alarm signal when moisture is detected by means of said at least

one sensor.

Please amend claim 17 as follows:

17. (Twice Amended) A system according to claim 1, wherein said at least one sensor comprises a microprocessor connected with the resonant circuit and in which an identification code is stored, which identification code is passed to the resonant circuit when the resonant circuit is resonated by the electromagnetic interrogation field, and said at least one reading device being arranged to read the identification code by means of the electromagnetic interrogation field.

Please amend claim 18 as follows:

18. (Twice Amended) A system according claim 1, the system further comprises a central control unit which is, optionally wirelessly, connected with said at least one reading device for obtaining information about the presence of moisture at said at least one sensor.

Please amend claim 19 as follows:

19. (Twice Amended) A sensor for detecting the presence of moisture, comprising:
a resonant circuit having a resonance frequency and being at least partly formed from a moisture sensitive material having an electrical resistance which increases when in contact with moisture, the moisture sensitive material being arranged on a carrier material in the form of a coating, at least part of said circuit being formed by said coating.

Please add new claim 20:

20. (New) A system according to claim 4, wherein the entirety of said LC circuit is made from the moisture sensitive material.

BEST AVAILABLE COPY